BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer-Byatarayanapura Division

Detailed Estimate

Name of Work: Improvements to Roads and drains at Thanisandra gramatana and surrounding areas in ward no:6 Thanisandra, Byatarayanapura Subdivision

			Estimate Amount	5000000.00					
Sl. No	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in
	CIVIL WORKS								
1	KSRRB 300-1. **Earthwork excavation** by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**								
		Cum							
	Desilting								
	Thanisandra village								
	1st cross		1	30	0.45	0.450	6.08		
	2nd cross		1	46	0.45	0.450	9.32		
			1	100	0.45	0.450	20.25		
			1	120	0.45	0.450	24.30		
			1	70	0.45	0.450	14.18		
			1	40	0.45	0.450	8.10		
	cross road	L/s	1	98	0.60	0.450	26.46		
	NEW Drain-RCC								
	Near kateramma temple surrounding area.								
	cross road	**R/s**	1	43	1.20	0.90	46.44		
		R/s	1	118	1.20	0.90	127.44		
		R/s	1	51	1.20	0.90	55.08		
	For Slab Drain								
			1	343	0.75	0.75	192.94		
							530.57	**83.16**	**44122.00**
2	**Providing granite slabs** of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 10cm thick**(Page No 25., I.No.5.31.2 of KPWD S.R 2015-16).**								
		Sqm							
	BS L'Shaped drain								
	For Slab Drain Cross Roads		1	343	1.65		565.95		
							565.95	**794.88**	**449863.00**

3	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of mix1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2								
	NEW Drain-RCC	**Cum**							
	Near kateramma temple surrounding area.								
	cross road	**R/s**	1	43	0.90	0.100	3.87		
		R/s	1	118	0.90	0.100	10.62		
		R/s	1	51	0.90	0.100	4.59		
							19.08	**5236.92**	**99920.00**
4	Providing and laying **Plain /reinforced cement concrete** for Box drain walls of thickness 10cm to 20cm including centring shuttering for work etc. complete as per approved drawing and design MORTH specification No.1500,1700,2200 **(Page No258., I.No.37.59.2 of KPWD S.R 2014-15).**								
	RAFT	**Cum**							
	NEW Drain-RCC								
	Near kateramma temple surrounding area.								
	cross road	**R/s**	1	43	0.90	0.150	5.81		
		R/s	1	118	0.90	0.150	15.93		
		R/s	1	40	0.90	0.150	5.40		
	WALL								
	Near kateramma temple surrounding area.								
	cross road	**R/s**	2	43	0.15	0.600	7.74		
		R/s	2	118	0.15	0.600	21.24		
		R/s	2	40	0.15	0.600	7.20		
							63.32	**6954.12**	**440300.00**
5	KSRB 4.9.2 : Providing **T .M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 **(Page No 17..**								
		Tonne							
	Near kateramma temple surrounding area.								
	taking 75kg/cum						4.74		
							4.74	**59327.91**	**281133.00**

6	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	NEW Drain-RCC								
	Near kateramma temple surrounding area.								
	cross road	**R/s**	1	43	0.90		38.70		
		R/s	1	118	0.90		106.20		
		R/s	1	40	0.90		36.00		
							180.90	**1834.00**	**331771.00**
7	Providing precast slab of **250mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	For Covering Slab								
	Cross roads		4	6.5	1.20		31.20		
							31.20	**5111.00**	**159463.00**
	ROAD WORKS								
8	KSRRB M300-14. **Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum** bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 **(Page No 142., I.No.19.14 of KPWD S.R 2015-16).**								
		Cum							
	NEW FORMATION								
	Thanisandra village								
	1st cross		1	30	4.00	0.200	24.00		
	2nd cross		1	46	4.50	0.200	41.40		
			1	100	4.50	0.200	90.00		
			1	120	4.50	0.200	108.00		
			1	70	4.50	0.200	63.00		
			1	40	4.50	0.200	36.00		
							362.40	**48.60**	**17613.00**
9	KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No 148., I.No.19.64 of KPWD S.R 2015-16).**								
		Sqm							
	NEW FORMATION								
	Thanisandra village								
	1st cross		1	30	4.00		120.00		
	2nd cross		1	46	4.50		207.00		
			1	100	4.50		450.00		

			1	120	4.50		540.00		
			1	70	4.50		315.00		
			1	40	4.50		180.00		
							1812.00	**4.86**	**8806.00**
9	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2015-16								
		Cum							
	NEW FORMATION								
	Thanisandra village								
	1st cross		1	30	4.00	0.150	18.00		
	2nd cross		1	46	4.50	0.150	31.05		
			1	100	4.50	0.150	67.50		
			1	120	4.50	0.150	81.00		
			1	70	4.50	0.150	47.25		
			1	40	4.50	0.150	27.00		
							271.80	**5070.60**	**1378189.00**
10	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. Page No. 18/ Item No. 4.48/ PWD SR 2015-16								
		Cum							
	NEW FORMATION								
	Thanisandra village								
	1st cross		1	30	4.00	0.100	12.00		
	2nd cross		1	46	4.50	0.100	20.70		
			1	100	4.50	0.100	45.00		
			1	120	4.50	0.100	54.00		
			1	70	4.50	0.100	31.50		
			1	40	4.50	0.100	18.00		
							181.20	**6332.04**	**1147345.00**
11	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 171/ Item No. 22.7/ PWD SR 2015-16								
		Sqm							

	NEW FORMATION								
	Thanisandra village								
	1st cross		1	30	4.00		120.00		
	2nd cross		1	46	4.50		207.00		
			1	100	4.50		450.00		
			1	120	4.50		540.00		
			1	70	4.50		315.00		
			1	40	4.50		180.00		
							1812.00	**97.20**	**176126.00**
12	Providing groove cutting for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials,. Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. No. 187/ Item No. 22.7/ PWD SR 2015-16								
		Mter							
	Thanisandra village								
	1st cross		8	4.00			32.00		
	2nd cross		12	4.50			54.00		
			22	4.50			99.00		
			20	4.50			90.00		
			13	4.50			58.50		
			10	4.50			45.00		
							378.50	**138.24**	**52324.00**
								sub Total	**4586975.00**
13	For8% KRIDL Charges								**366958.00**
14	For 1% PMC/Third party inspection charges								**45870.00**
15	Miscllenous and other charges								**197.00**
	Grand Total								**5000000.00**

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

ADMINISTRATIVELY SANCTIONED FOR 50.00 lakhs
Rupees fifty lakhs only

Under P.1878

Asst. Engineer
Ward No-6
BBMP

AEE
Byatarayanapura Sub Division
BBMP

Executive Engineer 14/9/16
Byatarayanapura Division
BBMP

Registered as EE( )
Subject to conditions contained in
enclosed memo EE( ) No. /dt.
Dt. Estimate AS sanctioned
JC(Y) PA/AS/12/2016-17
dated Rs 50.00 lakhs

Technical Sanction
Accorded For 50.00 lakhs Rs.
Head of A/C P.1878
CER NO : 6A **Dt:** 21.10.16

Joint Commissioner
(Yelahanka Zone)
BBMP Bengaluru-92

TA CE (YNK)